| In | dex o | f Clai | ims |
|----|-------|--------|-----|
|    |       |        |     |

| Application No. | Applicant(s)       |       |
|-----------------|--------------------|-------|
| 09/839,400      | SHUJI KIMURA, KATO | D-GUN |
| Examiner        | Art Unit           |       |
| Kenneth Tang    | 2127               |       |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |  |
|---|--------------------------------|--|
| ÷ | Restricted                     |  |

|   | N | Non-Elected  |
|---|---|--------------|
| + | ı | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Claim    |             |                |          |           |              | D | ate      | ,              |  |  |              |
|----------|-------------|----------------|----------|-----------|--------------|---|----------|----------------|--|--|--------------|
| Final    | Original    | 6/14/04        |          |           |              |   |          |                |  |  |              |
|          | (Ca)        |                | _        | ┝         | ╀-           | - | -        |                |  |  |              |
|          | <b>(1)</b>  | 1              | l-       | ├         | ╁            | + | -        | _              |  |  |              |
|          | 2           | V              |          | ⊢         | ╁            | + | $\dashv$ |                |  | -  |              |
|          | 13          |                | -        | ┢         | ┼-           | + | _        |                | -  | _  | H            |
|          | 5           | 1              |          | -         | ╁            | + |          |                |  | $\vdash$   |              |
|          | 6           | V              | -        | -         | ╁            | + | _        |                |  |  |              |
|          | 7           | V              | $\vdash$ | ╁         | ╁            | - | _        |                |  | -  | _            |
|          | 7           | 1              |          | +         | ╁            | 1 |          |                | -  | -  | -            |
|          | 9           | V              | ╌        | +         | ╁            | - |          |                |  | ╁  | -            |
|          | <u>(10)</u> | V              |          | ╁         | +            | + |          | -              | $\vdash$   | <del>                                     </del> |              |
|          | 11          | ├ <del>`</del> | -        | +         | 十            | + |          |                | H  |  | $\vdash$     |
|          | 12          | _              |          | +         | t            | + |          | $\vdash$       | -  | $\vdash$   | -            |
|          | 12<br>13    | +-             | $\vdash$ | +         | ╁            | + | _        |                |  | 1  |              |
|          | 14          | ╁              | +-       | +         | +            | 1 | _        | <u> </u>       | <b>-</b>   | 一  | <del> </del> |
|          | 14<br>15    | $\vdash$       | H        | +         | $^{+}$       |   |          |                | ┢  | $\vdash$   |              |
|          | 16          | -              | $\vdash$ | +-        | +            | ┪ | _        | -              | H  | <del> </del>                                     |              |
|          | 17          | ╌              | ╁╌       | ╈         | +            | 1 |          | 1              | ┢  | $\vdash$   | t            |
|          | 17<br>18    | $\vdash$       | +        | +         | +            | _ |          | H              | 1  | ╁  |              |
| _        | 19          | ╁              | ╁        | +         | +            | ┪ |          | <del> </del>   |  | $\dagger$  | T            |
|          | 20          | ╁╌             | +        | ╁         | $^{+}$       |   |          | <del>  -</del> | $\vdash$   | ╁  | +            |
|          | 21          | +              | $\vdash$ | +         | t            | _ |          | ╁              | ╁╌   | 十  | 1            |
|          | 22          | ╁              | 十        | ╁         | ╁            |   |          | $\vdash$       | <del>                                     </del> | -  |              |
|          | 23          | $\vdash$       | ╁        | ╁╌        | $^{+}$       | - | -        | 一              | $\vdash$   | +-   | t            |
|          | 23<br>24    | +              | +        |           | +            |   |          | ╁╌             | ╁╌   | Ħ  | $t^-$        |
| ļ        | 25          | t              | ╁        | +-        | $^{\dagger}$ | - |          | ┢              | $\vdash$   | †-   | †            |
| <u> </u> | 26          | †              | ╁        | +         | $^{\dagger}$ | _ | ┢        | $\top$         | T  | T  |              |
|          | 27          | t              | T        | $\top$    | $^{+}$       | _ |          |                | T  | +-   | $\vdash$     |
|          | 28          | $t^-$          | ✝        | $\dagger$ | +            |   |          |                | 1  | $\top$   | 1            |
|          | 28<br>29    | +-             | +        | +         | T            |   |          | T              | T  | 1  |              |
|          | 30          | $\vdash$       | +-       | $\top$    | 1            |   |          | 1              | 1  | $\top$   | 1            |
|          | 31          | ✝              | ╁┈       | T         | T            |   |          |                | 1  |  |              |
|          | 32          | +              | 1        | $\top$    | 1            | - |          |                |  |  |              |
| _        | 33          |                | 1        | $\top$    | Ť            |   |          |                | 1  |  | T            |
|          | 34          |                | Т        | 1         | 7            | _ |          |                | $\top$   |  | Т            |
|          | 35          | 1              | $\top$   | 1         | Ť            |   | 1        | 1              | 1  | T  | $\top$       |
|          | 36          |                |          |           | T            | _ | П        |                |  |  |              |
|          | 36<br>37    | 1              | Τ        |           | T            |   | Π        | Т              | T  |  |              |
|          | 38          | $\top$         |          |           | T            |   | Ī        | Т              |  |  |              |
|          | 39          | Τ              | 1        | Τ         | 1            |   |          |                |  |  |              |
|          | 40          | Τ              |          | 1         | T            |   |          |                |  |  |              |
|          | 41          |                | Т        | T         | T            |   |          |                |  |  |              |
|          | 42          |                |          | Ι         | Ι            |   |          |                |  |  |              |
|          | 43          |                | Ι        |           | I            |   |          |                | $\perp$  |  |              |
|          | 44          | $\perp$        | Ι        | Ι         | floor        |   |          | L              | I  |  |              |
|          | 45          | $\mathbb{T}$   | Ι        | J         | Ι            |   |          | L              |  |  | $\perp$      |
|          | 46          | Ι              | Ι        |           |              |   |          |                |  |  | L            |
|          | 47          |                |          |           | I            | _ |          | Ĺ              | L  | $\perp$  |              |
|          | 48          |                | $\prod$  |           | I            | _ |          | $\perp$        | L  | $\perp$  | $\perp$      |
|          | 49          |                |          | $\perp$   | _            |   |          | $\perp$        | $\perp$  | $\perp$  | $\perp$      |
|          | T           | - 1            | _        | -         | - 1          |   | 1 7      | 1 -            |  |  |              |

| ۱.   | Cla      | im I     |                |          |  |              | Date         |  |                |  |          | 1.1.  |
|------|----------|----------|----------------|----------|--|--------------|--------------|--|----------------|--|----------|-------|
| 1    |          |          |                |          |  |              |              | ĬΠ                                     |                |  |          |       |
|      |          | <u>_</u> |                |          |  |              |              | ΙI                                     | - 1            |  | Ì        | iii.  |
|      | آھ       | 트        |                |          | ł  |              |              |  |                | - 1  | 0        |       |
|      | Final    | Original |                |          |  |              |              |  |                |  |          |       |
|      |          | 0        |                |          | ļ  |              |              |  |                | ļ  |          |       |
|      |          | 51       |                |          | <del>  -</del>                                   | $\vdash$     | <b>—</b>     | $\vdash$                               |                |  |          |       |
|      |          | 51       | _              |          | -  |              |              |  | -              |  | -        |       |
|      |          | 52       |                | _        | ļ.,_   | <u> </u>     | <u> </u>     | <u> </u>                               |                | $\dashv$   |          |       |
|      |          | 53       |                | L        | <u> </u>   | <u> </u>     |              |  |                |  |          | 1.1.  |
|      |          | 54       |                |          |  |              |              | 1                                      |                | ļ  |          | :::.  |
|      |          | 55       |                |          |  |              |              |  |                |  |          | i     |
|      |          | 56       |                |          | <del>                                     </del> |              | <del> </del> | $\vdash$                               |                |  | _        |       |
|      |          | 57       |                | ┢        | <b>├</b> —                                       | ┢╾           | $\vdash$     | -                                      | _              |  | _        | 1.7.  |
|      |          |          |                |          |  | -            |              | ⊢                                      |                | _  |          |       |
|      |          | 58       |                | <u> </u> |  | <u> </u>     | 1            | ļ                                      |                |  |          | 112   |
|      |          | 59       |                |          |  | <u> </u>     |              | _                                      |                |  |          | 1.1   |
|      |          | 60       |                |          |  |              |              | 1                                      |                |  |          |       |
|      |          | 61       |                |          |  | Т            | 1            | Т                                      |                |  |          |       |
|      |          | 62       |                | $\vdash$ | +-   | $\vdash$     | 1            | 1                                      |                |  |          |       |
|      |          | 02       |                | $\vdash$ | ╁  | -            | ┼            | ╁                                      | -              |  | _        |       |
|      |          | 63       |                | ┡        | <b>↓</b> _                                       | ╄-           | 1            | <del> </del>                           | ₩              |  |          |       |
|      |          | 64       |                | L.       |  |              | <u> </u>     |  |                | <u> </u>   |          | 10    |
|      |          | 65       |                |          |  |              | 1            | 1                                      |                |  |          | : :   |
|      |          | 66       |                |          |  | 1            | T            | Т                                      |                |  |          |       |
|      |          | 67       |                | $\vdash$ | $t^-$  | 1            | t            | 1                                      |                | $\vdash$   |          | 100   |
| ::   |          |          | _              | ┼        | ╫  | ┼-           | <del> </del> | $\vdash$                               | <del> </del>   | -  | _        | 1     |
|      |          | 68       | <u></u>        | ┝        | +  | ┼            | ₩            | <del>-</del>                           |                | <del>-</del>                                     | -        | -     |
|      |          | 69       | _              | <u> </u> | 1  | 1_           | <u> </u>     | ╄-                                     | ļ.—            | <u> </u>   | <u> </u> | 100   |
|      |          | 70       |                |          | L.   |              |              |  | <u>L</u> .     |  |          | 1     |
|      |          | 71<br>72 | Γ.             |          |  |              |              | 1                                      | 1              |  |          |       |
|      |          | 72       |                | T        | 1-   |              | T            |  |                |  |          | 1     |
| 1.5  |          | 73       | -              | $\vdash$ | +  | <del> </del> | +            | 十一                                     | ┢              | <u> </u>   | _        | 1     |
|      |          | 73       |                | -        | -  | +            | ╁            | ╁╌                                     | ┼              | <del>                                     </del> | -        | -     |
|      |          | 74<br>75 | _              |          | +-   | -            | 1-           | ┿                                      | ₩              | ₩  |          | -     |
|      | L        | 75       | L              | ┖        | 1  | <u> </u>     | ┷            | ــــــــــــــــــــــــــــــــــــــ | L_             | 1  | _        | 4     |
|      | 1        | 76       |                |          | 1  | i            | 1            | l                                      | <u>.</u>       |  |          | ]::   |
|      |          | 77       | Г              |          |  | П            |              | ĺ                                      | 1              | 1  | l        |       |
|      |          | 78       |                | T        |  |              | 1            | Т                                      | 1              |  |          | 1     |
|      |          | 79       |                | +        | +-   | +-           | +            | 1-                                     | +~-            | <b>†</b>   | Т        | 1     |
|      |          | 13       | ╁              | +-       | +-   | +-           | +-           | +                                      | +              | +  |          | 1     |
| iii  |          | 80       | <del> </del> — | +-       | +  | +            |              |  | ┿              | ├  | ₩        | -{::: |
| ii.  |          | 81       | L              | ╄        | $\perp$  | <u> </u>     | _            | 1                                      | -              |  | <u> </u> | 4:    |
| 9    | 1        | 82       |                | _        | <u> </u>   |              |              |  |                | _  | _        | 1::   |
| ij.  |          | 83       |                |          | T  |              | 1            | 1                                      | 1              | 1  |          |       |
|      |          | 84       |                |          | 1  | 1            | T            |  |                | Г  | Γ        | 7     |
|      |          | 85       | t              | +        | T  | +            | +-           | +                                      | T              | 1-   | г        | 1:    |
|      | <u> </u> |          | -              | ╁        |  | +            | +            | +                                      | +              | +  | +-       | 1     |
|      |          | 86       | -              | +-       | +-   | +            | +-           | ┿                                      | +              | <del> </del>                                     | +-       | -     |
|      | <u> </u> | 87       | _              | ļ        | —  |              | <b>-</b>     | _                                      | <del> </del> - | ╄  | ┡        | - 5   |
| . 10 | 1        | 88       |                |          |  |              |              |  | ┸              |  | <u> </u> |       |
| :::  |          | 89       |                | Т        | 1  |              |              |  | ł              |  | İ        | 1     |
| ÷    | -        | 90       | Т              | +        | _  |              | 1            | T                                      | 1              | Т  |          | 7::   |
|      | 1        | 91       | +-             | T        | +-   | 1-           | $\top$       | +-                                     | T              | T  | 1        | 1     |
|      | -        |          | +-             | +        | +-   | +            | +-           | +                                      | +              | +-   | +        | 1:    |
|      | <u> </u> | 92       | 1              | +        |  | +            | +            | +                                      | <del> </del>   | +  | $\vdash$ | -     |
|      |          | 93       | <u>_</u>       | 1        | $\perp$  | $\perp$      | $\perp$      | 1                                      | $\perp$        | 1  | 1_       | 1     |
| -    |          | 94       | L              |          |  |              | 1            |  |                |  |          |       |
|      |          | 95       | T              | T        | T  | 1            |              | Т                                      |                |  |          | 1     |
|      | -        | 96       | $\top$         | T        | +-   | T            | +-           | 1                                      | Τ_             | $\top$   | 1        | 1     |
|      | 1        | 07       | $\vdash$       | +-       | +  | +            | +            | ╁                                      | +              | +  | +-       | +     |
|      | <u> </u> | 97       | +              | +-       | +  | +            | +            | +                                      | +-             | +  | +        | 4     |
|      | ļ        | 98       | 1_             | 4        | 4  | $\bot$       | 4            | -                                      | 1-             | +-   | $\vdash$ | 4     |
|      | 1        | i aa     | 1              |          | - 1  | - 1          |              | 1                                      | 1              | 1  | 1        | 100   |

| Cla         | aim                                    |          |          |            |          | Date     | =        |  |                |              |
|-------------|--|----------|----------|------------|----------|----------|----------|--|----------------|--------------|
|             |  |          |          |            |          |          |          |  | Т              | _            |
| 7           | Original                               |          |          |            |          |          |          | ļ  |                |              |
| Final       | į                                      |          |          |            |          |          |          | Ì  |                |              |
| ш.          | ō                                      |          |          |            |          |          | ll       |  | ĺ              |              |
|             |  |          |          |            | _        |          | ┝╌╢      |  | $\dashv$       | $\dashv$     |
|             | 101<br>102                             |          | _        | -          |          |          |          | $\dashv$   | -              |              |
|             | 102                                    | _        |          | _          |          | <u> </u> | -        | _  |                |              |
|             | 103                                    |          |          | <u> </u>   |          | _        | $\vdash$ | -1   | +              | -            |
|             | 104                                    |          |          | <u> </u>   | _        |          |          | _  | -              |              |
|             | 105                                    | _        |          |            |          | <u> </u> |          |  |                |              |
|             | 106<br>107                             |          |          | _          | <u> </u> | <u> </u> |          |  | _              | _            |
|             | 107                                    |          |          |            | ļ        | _        |          |  |                | _            |
|             | 108                                    | _        |          |            | <u> </u> | ļ        | <u> </u> |  | _              |              |
|             | 109                                    |          |          | L          |          |          |          |  |                | _            |
|             | 110                                    |          |          | L          |          | <b>.</b> |          |  |                |              |
|             | 111                                    |          |          | _          |          |          |          |  |                | _            |
|             | 112                                    | _        |          | <u> </u> _ | oxdot    | <u> </u> | $\vdash$ |  |                | _            |
|             | 113                                    | _        | L        |            | L        | L        | <u> </u> |  |                |              |
|             | 114                                    |          | Ĺ        | L          |          | _        |          |  |                |              |
|             | 115                                    |          |          |            | L        | $\Box$   | L        |  |                |              |
|             | 111<br>112<br>113<br>114<br>115<br>116 |          |          |            |          | Ĺ        |          |  |                |              |
|             | 117                                    |          |          | Γ          |          |          |          |  |                |              |
|             | 118                                    |          |          |            |          |          |          |  |                |              |
|             | 119<br>120                             |          | П        |            |          | 1        |          |  |                |              |
|             | 120                                    |          | $\vdash$ |            | Г        |          | Τ        |  |                |              |
|             | 121                                    |          | T        | T          | İΤ       | 1        | $\vdash$ |  |                |              |
|             | 121<br>122<br>123                      | <u> </u> |          | 1          |          | <b>†</b> | 1        | 1  |                |              |
|             | 123                                    |          |          | 1-         |          | †        | ╁┈       | $\vdash$   |                |              |
| <del></del> | 124                                    | 1        | 1        | +          | +        | +        | +-       |  | _              |              |
|             | 124<br>125                             | H        | ┼~       | +          |          | +        | $\vdash$ | $\vdash$   |                | 1            |
|             | 126                                    | ╁╌       | ┢        | ╁          | +-       | +        | +        | <del>                                     </del> |                | Н            |
|             | 127                                    | $\vdash$ | ┼        | +          | +-       | +-       | +-       | ┢  | -              | $\vdash$     |
|             | 127<br>128                             | -        | $\vdash$ | t          | ╁        | ╁╌       | ╁╌       | -  | -              | Н            |
| <u> </u>    | 120                                    | ╁        | $\vdash$ | +          | +-       | +        | +        | $\vdash$   | ├─             |              |
|             | 129<br>130<br>131                      | $\vdash$ | ╁        | +          | +        | +        | +        | +-   | -              | $\vdash$     |
| -           | 130                                    | ╁        | ┼        | +          | ╀        | +        | +        | -  | ├              |              |
| <u> </u>    | 131                                    | -        | ╁        | +          | ┼        | ╁        | ┼        | $\vdash$   | $\vdash$       |              |
|             | 132<br>133                             | +        | ╁        | +          | ╁        | +        | +        | ┼-   | -              | $\vdash$     |
|             | 133                                    | ╄        | ╀        | +          | +        |          | +        | -  | ļ              | $\vdash$     |
|             | 134<br>135                             |          | ╀        | +          |          | +        |          | $\vdash$   | ╁              | $\vdash$     |
|             | 135                                    | ╀        | ┼-       | +          | ╁        | +-       | +-       | <b>-</b>   | $\vdash$       | $\vdash$     |
| <u> </u>    | 136                                    | +        | ╄        | +-         | +        | +        |          | ┼-   | ⊢              |              |
| <u> </u>    | 137                                    | ╁        | ╀        | ╀          | ╁        | +        | +        | -  | ├              | $\vdash$     |
| <u></u>     | 138                                    | +        | ļ        | +          | ╀        | +        | -        | ┼  | 1              | -            |
| <u></u>     | 139                                    | <u> </u> | ╄-       | 1          | 1-       |          | <u> </u> |  | -              | $\vdash$     |
|             | 140                                    | $\bot$   | 1        | $\bot$     | 1        | ╁-       | 1-       | -  | <del> </del> — | $\vdash$     |
|             | 141                                    | <u> </u> | $\perp$  | ļ          | ļ        | 4        | _        | ↓_   | <u> </u>       | Ш            |
|             | 142                                    | -        | $\perp$  | 1          | -        | $\bot$   | ╁        | 1_   | ـ              | $\vdash$     |
|             | 143                                    |          | 1_       | 4_         | 4        | 4_       | _        | 1  | _              |              |
| L           | 144                                    | <u> </u> | 1        | $\perp$    | $\perp$  | _        | $\perp$  |  | _              | $\sqcup$     |
|             | 145                                    | L        |          | 1_         |          |          |          |  | L              | $oxed{oxed}$ |
|             | 146                                    |          |          |            |          |          |          |  |                |              |
|             | 147                                    |          |          | $\perp$    |          |          |          |  | L              |              |
|             | 148                                    | Ι        |          |            |          |          | I        |  |                |              |
|             | 149                                    |          | Τ        |            |          |          |          |  |                |              |
|             | 150                                    |          | 1        | $\top$     | 1        | T        | 1        | 1  | Τ              |              |
| ٠ــــــ     |  |          |          |            |          |          |          |  | _              |              |